

Flight Scientist Report  
Friday 05/20/2022 ACTIVATE RF158

Flight Type: Statistical Survey Flight  
Flight Route: KLF I ECG OXANA 3235N/07529W OXANA ECG KLF I  
Special Notes:

**King Air**

Pilot report (Slover):

ACTIVATE planned route as: KLF I ECG OXANA 3235N/07529W OXANA ECG KLF I which was flown as planned except the leg from 3235N/07529W to OXANA was flown on a 20 nm offset to the southeast. High cirrus was present for much of the route but sun was visible through the thin layer. Aircraft operated nominally.

Flight scientist report (Seaman):

RF158

5/20/2022 Flight 1 of 1

Takeoff: 13:11 utc

Landing: 16:56 utc

Flight path:

KLF I ECG OXANA 32.58N75.48W (offset 20 Nm to southeast for return) OXANA  
ECG KLF I

Ops Notes:

Nominal

Instrument notes:

All operated nominally.

Science notes:

Heavily layered structure throughout flight. Hazy day, some cirrus above.

Sonde drops:

1) OXANA

- 2) endpoint
- 3) halfway back to OXANA
- 4) coast

**Falcon**

Pilot report (Baxley):

ACTIVATE HU-25 mission with UC-12; Baxley/Elder, Crosbie/Winstead KLF I ECG OXANA 3235N/07529W OXANA ECG KLF I - Return leg flown 20-24 miles east of track to collect data from clouds - KLF I ECG OXANA 3235N/07529W 3222.43N/07510.16W 3336.34N/07359.33W OXANA ECG KLF I Weather as expected, flown as briefed with exception of parallel track 20-24 miles east on return to OXANA. Approaching ECG and return to KLF I climbed to ~9000' MSL to sample haze layer, then forced to remain above 5500' MSL due to track until within 8 nmi of KLF I. No aircraft or data collection anomalies noted.

Flight scientist report ():

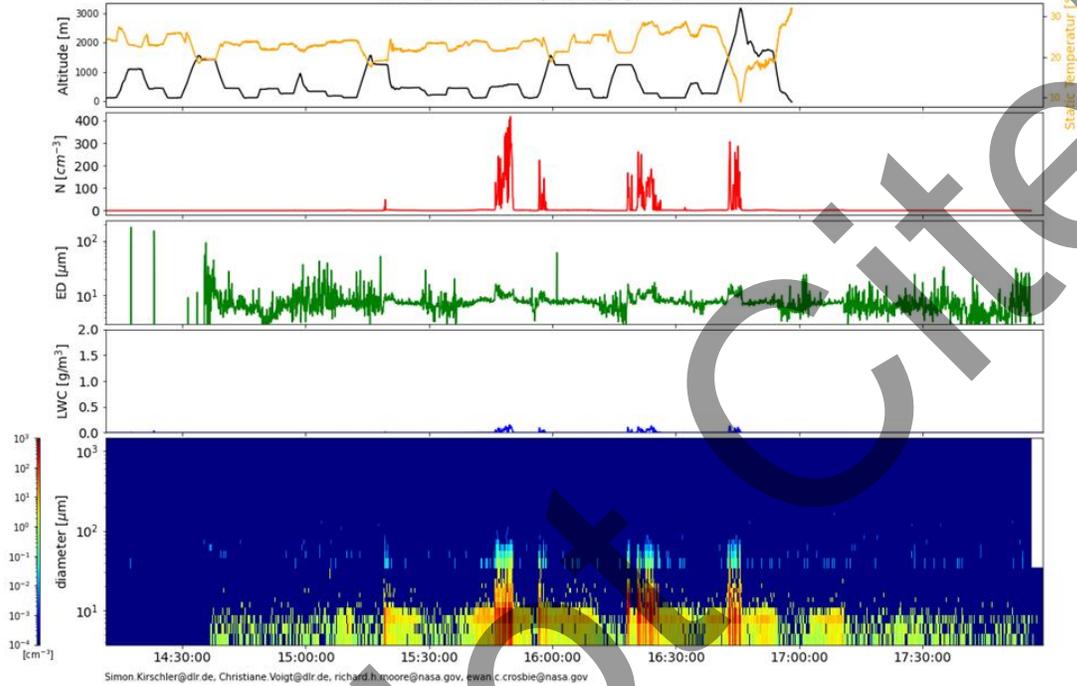
# Quicklook ACTIVATE Cloud Probes (FCDP & 2DS) Quicklook

preliminary data, only for quicklook use

Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbie

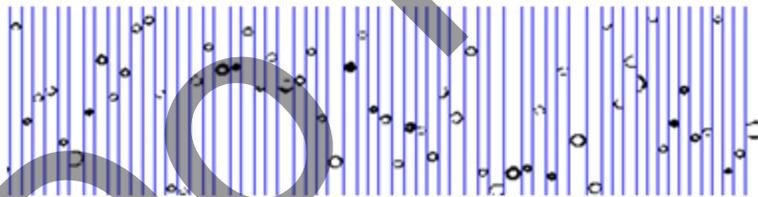
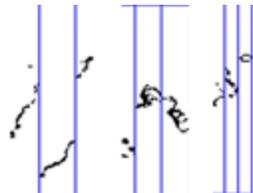
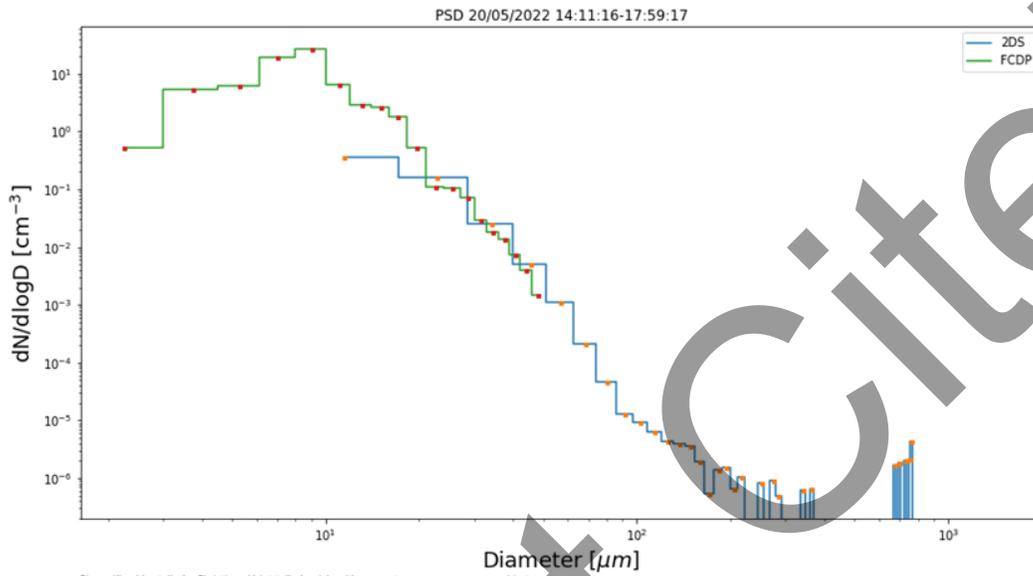


Cloud Probes (FCDP & 2DS) Quicklook 20/05/2022 14:11-16:17:59:17



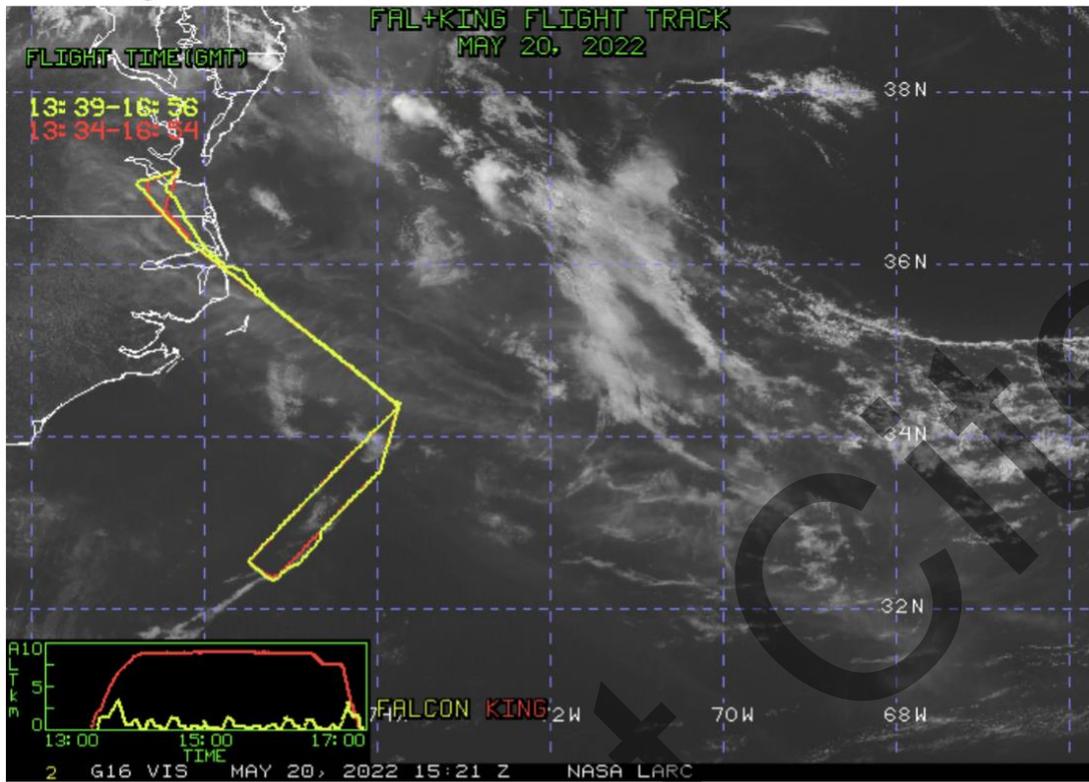
# PSD ACTIVATE

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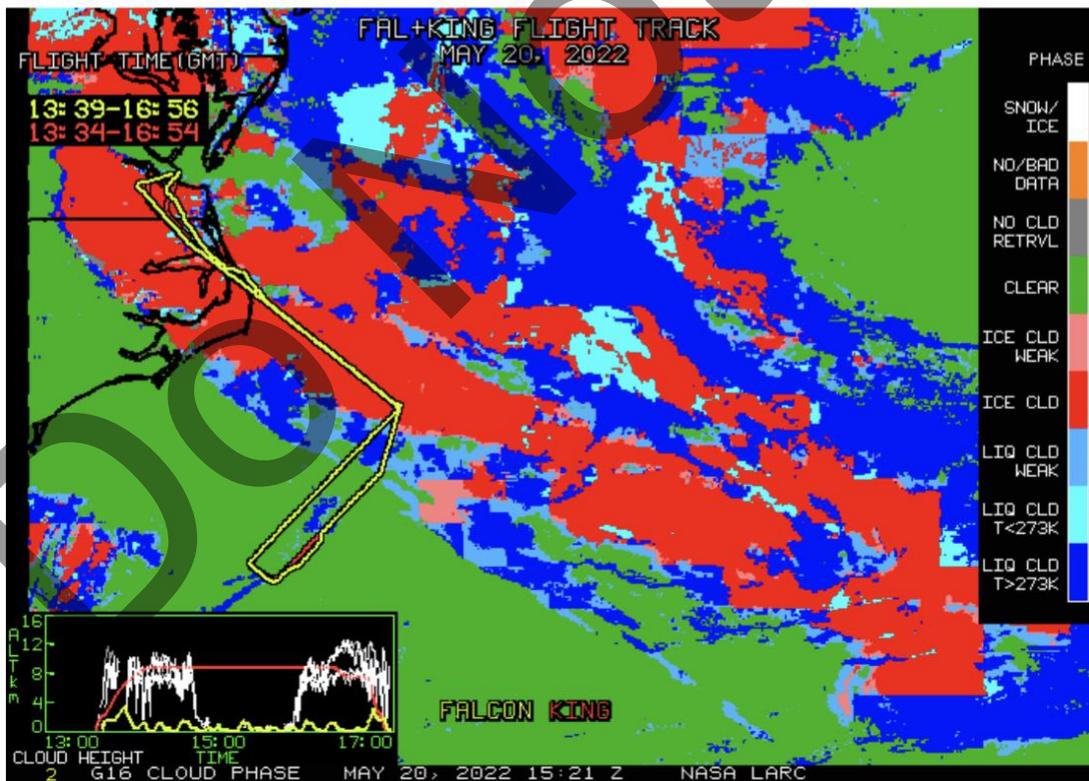


Only pure liquid clouds with large  
Bioaerosol and no Precip.

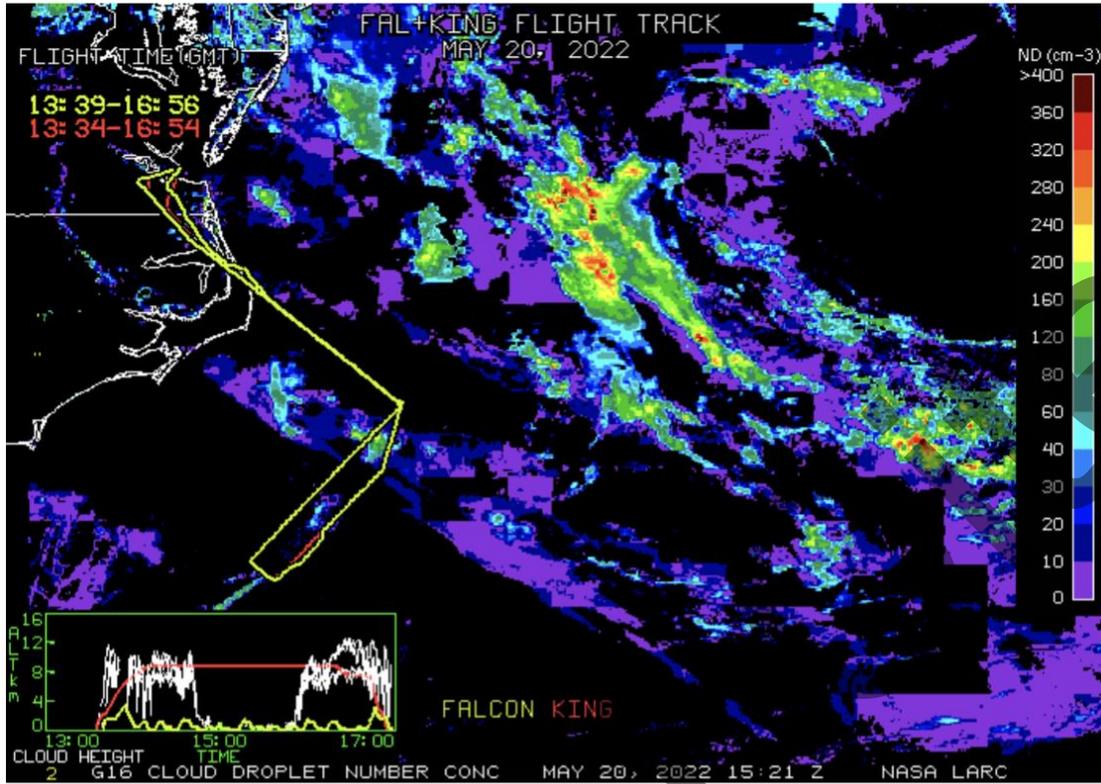
Visible Image



Cloud Phase



Cloud Droplet Number Concentration (cm-3)



Cloud-Top Height (Kft-ASL)

